

Entry date for Amended
claims - 02/21/03

U.S. Serial No. 08/945,705

AMENDED SPECIFICATION

For the paragraph beginning on page 6, line 27:

C1
In the lubricating oil composition of the present invention, any of the following ones can be used as the zinc dialkyldithiophosphate: zinc dialkyldithiophosphate represented by the general formula [2] in which all of the alkyl groups are primary; a mixture of two zinc dialkyldithiophosphates in which all of the alkyl groups of the first zinc dialkyldithiophosphate are primary and in which one of the alkyl groups of the second zinc dialkyldithiophosphate is primary and the other alkyl group is secondary; zinc dialkyldithiophosphate in which one of the alkyl groups is primary and the other is secondary; zinc dialkkyldithiophosphate in which one of the alkyl groups is secondary; and mixtures thereof.

AMENDED CLAIM

C2
2. A lubricating oil composition capable of maintaining its friction reducing properties for a prolonged time under conditions of use in an engine characterized by comprising a lubricating base oil and additives consisting essentially of:

(a) sulfoxymolybdenum dithiocarbamate containing a hydrocarbon group having 8 to 18 carbon atoms,

(b) a zinc dialkyldithiophosphate component selected from the group consisting of (i) zinc dialkyldithiophosphate containing primary alkyl groups having 1 to 18 carbon atoms, (ii) a mixture of zinc dialkyldithiophosphate containing primary alkyl groups having 1 to 18 carbon atoms and zinc dialkyldithiophosphate containing secondary alkyl groups having 1 to 18 carbon atoms, (iii) zinc dialkyldithiophosphate containing a primary alkyl group containing 1 to 18 carbon atoms, and (iv) mixtures thereof,

(c) an alkylsalicylate component comprising from 0 to 50% by weight of magnesium alkylsalicylate, the balance calcium salicylate;

(d) succinimide containing boron,

C2
cont.
the amount of molybdenum derived from the sulfoxymolybdenum dithiocarbamate being from 200 to 1000 ppm (weight basis) of the total weight of the composition,

the amount of phosphorous derived from the zinc dialkyldithiophosphate component being from 0.04 to 0.15% by weight of the total weight of the composition,

the total amount of the alkylsalicylate component being from 0.5 to 10% by weight of the total weight of the compositions,

the amount of boron derived from the succinimide containing boron being from 0.005 to 0.06% by weight of the total weight of the composition, and the boron/nitrogen ratio regarding the number of atoms contained in the succinimide containing boron is from 0.05 to 1.5.

U.S. Serial No. 08/945,705

AMENDED SPECIFICATION WITH MARKINGS

For the paragraph beginning on page 6, line 27:

In the lubricating oil composition of the present invention, any of the following ones can be used as the zinc dialkyldithiophosphate: zinc dialkyldithiophosphate represented by the general formula [2] in which all of the alkyl groups are primary; a mixture of two zinc dialkyldithiophosphates in which all of the alkyl groups of the first zinc dialkyldithiophosphate are primary and [zinc dialkyldithiophosphate] in which one of the alkyl groups of the second zinc dialkyldithiophosphate is primary and the other alkyl group is secondary; zinc dialkyldithiophosphate in which one of the alkyl groups is primary and the other is secondary; zinc dialkkyldithiophosphate in which one of the alkyl groups [are] is secondary; and [a] mixtures thereof.

AMENDED CLAIM WITH MARKINGS

AMENDED
FOR

2. A lubricating oil composition capable of maintaining its friction reducing properties for a prolonged time under conditions of use in an engine characterized by comprising a lubricating base oil and additives consisting essentially of:

(a) sulfoxymolybdenum dithiocarbamate containing a hydrocarbon group having 8 to 18 carbon atoms,

(b) a zinc dialkyldithiophosphate component selected from the group consisting of (i) zinc dialkyldithiophosphate containing primary alkyl groups having 1 to 18 carbon atoms, (ii) a mixture of zinc dialkyldithiophosphate containing [a] primary alkyl groups having 1 to 18 carbon atoms and zinc dialkyldithiophosphate containing secondary alkyl groups having 1 to 18 carbon atoms, (iii) zinc dialkyldithiophosphate containing a primary alkyl group containing 1 to 18 carbon [atomms] atoms, and (iv) mixtures thereof,

(c) an alkylsalicylate component comprising from 0 to 50% by weight of magnesium alkylsalicylate, the balance calcium salicylate;

(d) succinimide containing boron,

the amount of molybdenum derived from the sulfoxymolybdenum dithiocarbamate being from 200 to 1000 ppm (weight basis) of the total weight of the composition,

the amount of phosphorous derived from the zinc dialkyldithiophosphate component being from 0.04 to 0.15% by weight of the total weight of the composition,

the total amount of the alkylsalicylate component being from 0.5 to 10% by weight of the total weight of the compositions,

the amount of boron derived from the succinimide [containing] containing boron being from [0.05] 0.005 to 0.06% by weight of the total weight of the composition, and the boron/nitrogen ratio regarding the number of atoms [containing] contained in the succinimide containing boron is from 0.05 to 1.5.